

ABSTRACT OF THE DISCLOSURE

An eye's optical characteristic measuring system comprises an aperture diaphragm 14 arranged at a position approximately conjugate to a pupil of an eye 1 under testing and for determining regions to pass a light beam on the pupil 18, a projection optical system 2 for projecting a primary index image on a fundus of the eye under testing via the aperture diaphragm, a photodetection optical system 3 for forming a secondary index image on a photoelectric detector 21 via the aperture diaphragm by a reflected light beam from the fundus of the eye under testing, and detecting units 26, 27 and 28 for detecting a light amount intensity distribution of the secondary index image based on a signal from the photoelectric detector.